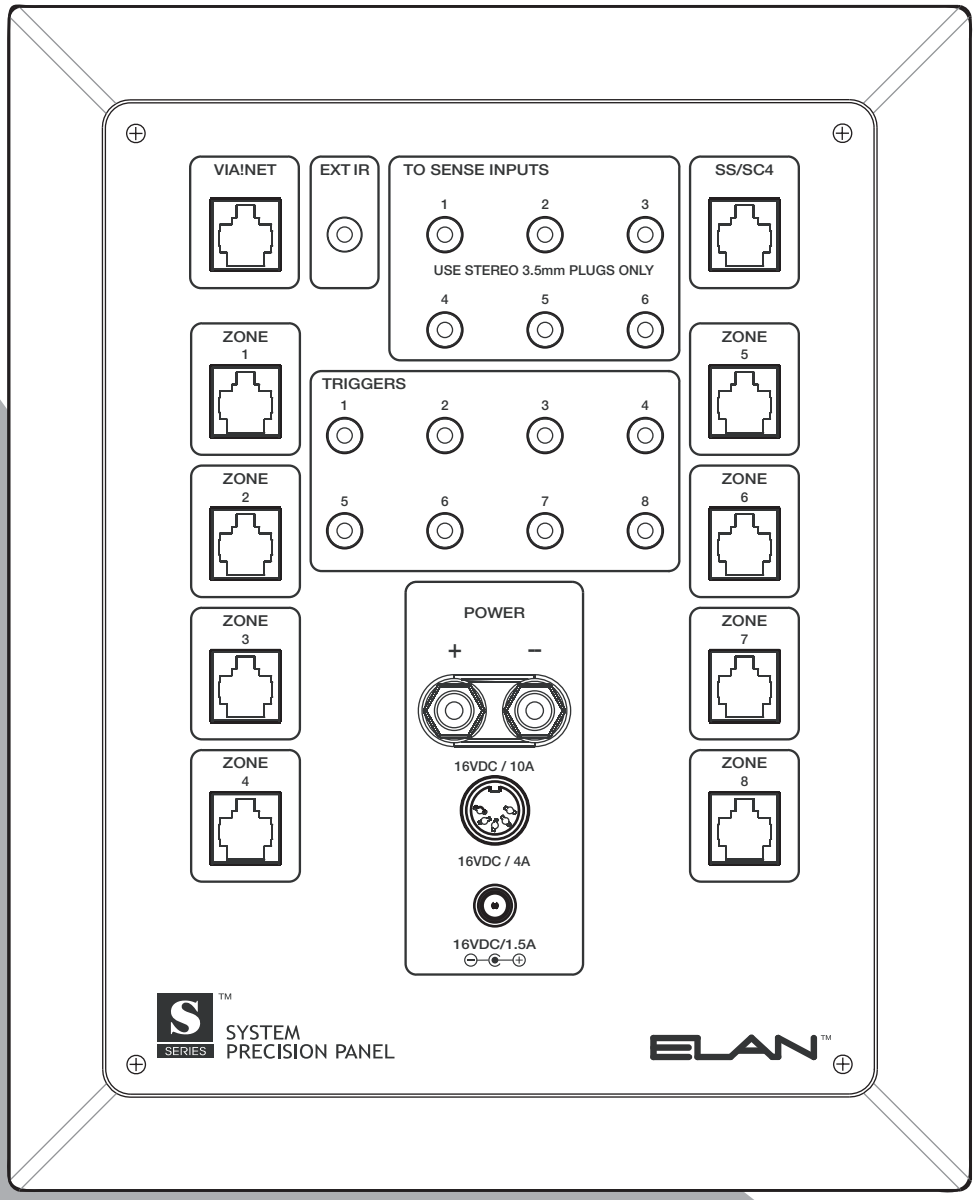
SPP

8-ZONE SYSTEM PRECISION PANEL
INSTALLATION MANUAL



S SERIES

ELAN

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Introduction

The SPP System Precision Panel is designed to simplify the installation of ELAN S Series Multi-Room Controllers and provide a reliable, logical connectivity solution. Designed to work with ALL S Series models (S6, S8.6AV, S8.6AVP, and S12), the SPP has provisions for each connection type required for a complete multi-room system installation: from a simple six zone S6 scenario to a complex thirty-two zone S12 automation showcase.

Features

The rear panel of the SPP features a neatly laid out array of all the 110 punch-downs necessary to ensure the quick, reliable connection of keypads, touchpads and touch panels in every zone. The INT 12V-EXT 16V switches (one per zone) selects between internally generated voltage of the System Controller (+12 Volts DC) or externally generated voltage from a 16 VDC power supply connected to the front of the SPP. There are also dedicated punch-down connectors for six ELAN™Sense sensors, eight Triggers, and EXT IR signals.

Two custom Overlays are included that show both the color-code and functions of every connection of the System6, System8 and System12. There are RJ-45 jacks and a switch on the rear of the panel for an easy link to an additional SPP, SC-4 System Controller or SS1 System Station.

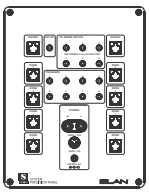
A ZNET/VNET switch selects between systems based on ZNET (S6 and S12 multi-room controllers) and VNET (S8).

Use ELAN C4545 one or two meter RJ-45-to-RJ-45 interconnect cables for reliable connections every time. Six Sense Input jacks use stereo 3.5mm interconnect cables to go directly to the Sense Inputs. Eight Zone Trigger Output jacks use mono 3.5mm interconnect cables to go directly to the Trigger Outputs. A mono 3.5mm EXT IR connector is available for use with the S12 and SS1 System Station. The front panel also features DC power jacks for 1 Amp, 4 Amp, and 10 Amp VIA! power supplies for easy connection.

The front panel of the SPP is removable, making all rear-panel punch-downs easy. PBKT6P new construction rough-in brackets are available, or the SPP can easily be retro-fitted using the four clamping legs attached to the frame, which clamp the panel securely to drywall. Additional panels are required for systems with two, three or four S8 or S12 chassis.

NOTE: Multiple System6 chassis cannot be combined in one system.

Each punch-down location can contain two wires; one on top of the other. Use the included 110 punch-down tool to make connections to the rear panel of the SPP. Make sure to use the included punch-down caps so that connections do not inadvertantly become loose!



ELAN Precision Panels save time and make sense out of complex wiring jobs!

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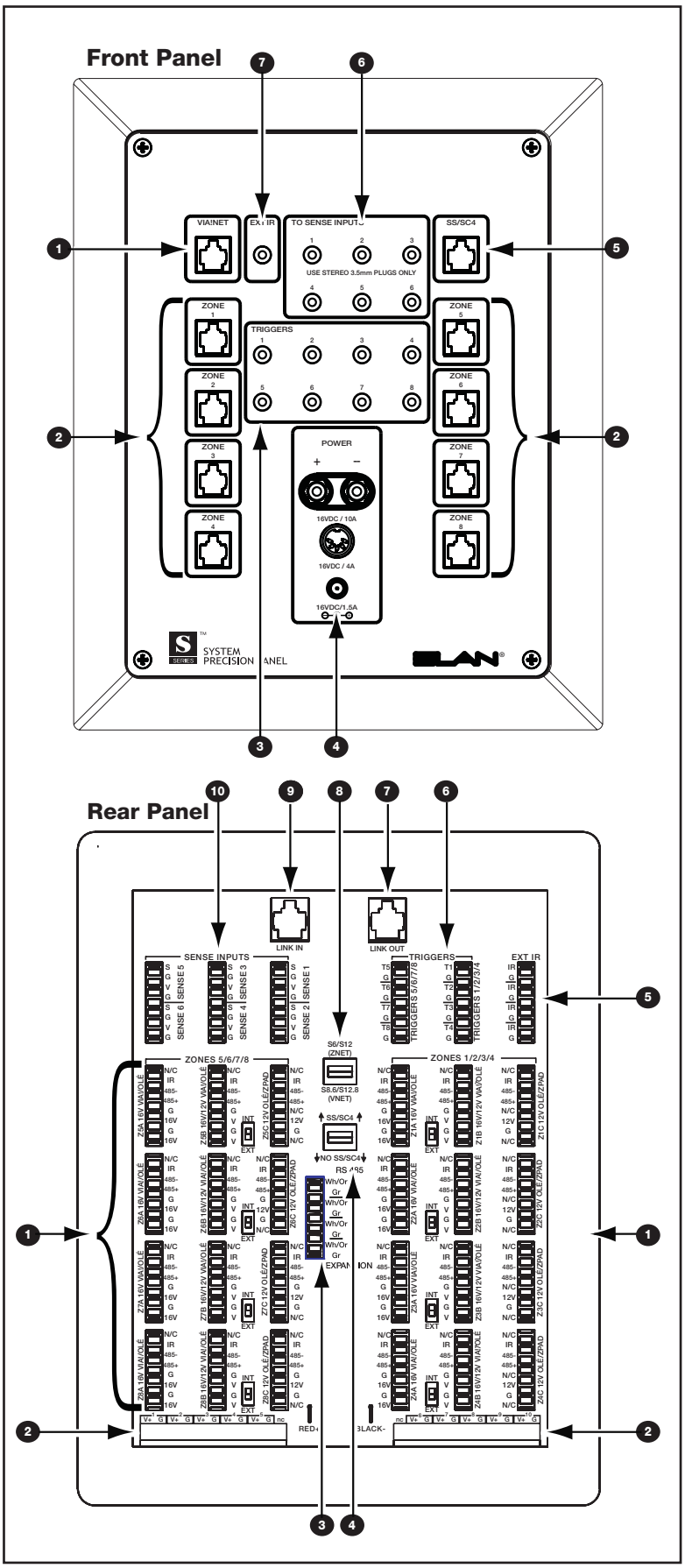
SPP Front/Rear Panel



1. VIA!NET RJ-45 Port
2. Zone 1-8 RJ-45 Ports
3. 3.5mm Mono Triggers Connections
4. 16 VDC Power Connections for PWR1, PWR4, PWR10 Power Supplies
5. SS1/SC4 RJ-45 Port
6. 3.5mm Stereo Sense Input Connections
7. 3.5mm Mono EXT IR Connection

1. Zones Punchdown Blocks
2. External Power Connectors
3. RS485 Expansion Block
4. SS/SC4 Switch
5. External IR Punchdown Block
6. 3.5mm Stereo Sense Input Connections
7. Triggers Punchdown Blocks
8. Link Out RJ-45 Connection
9. Z-NET/V-Net Switch
10. Link In RJ-45 Connection

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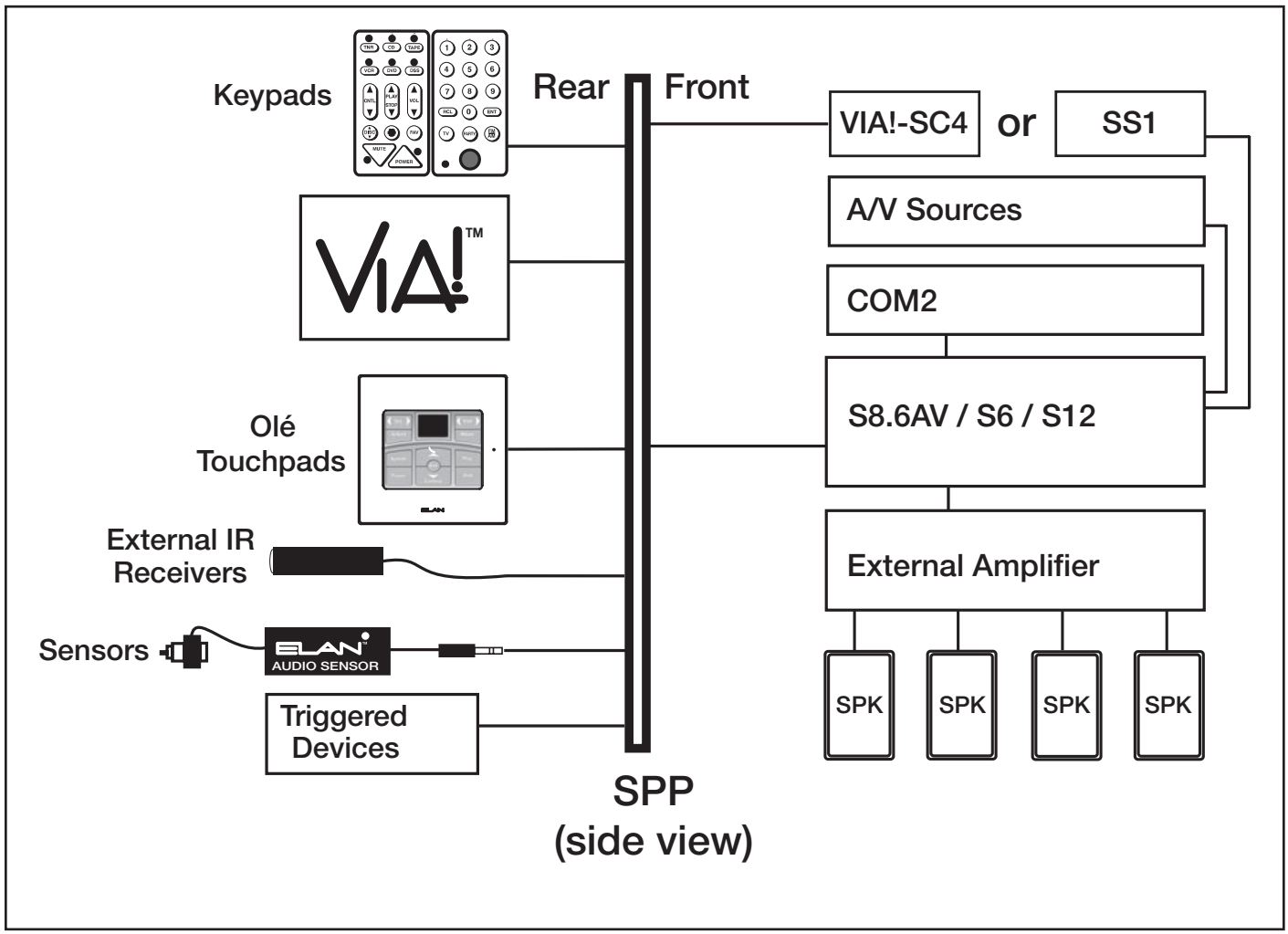
System Design

Proper system design ensures that all parts of a whole-house audio/video system work together to provide the desired results. Each part of the system (source A/V components, keypads, speakers, and the multi-room controller, for example) must be carefully chosen and a location specified for each device. Wiring needs must be carefully planned for. Building codes and contruction methodology must be factored in to provide a safe and properly functioning system. Before beginning any installation, it is advisable to consult a set of building plans and a list of equipment and map out each part of the system. Make sure to carefully locate speakers, keypads, touchpads, touchpanels, and wire runs so as to avoid interference with other household devices such as plumbing, doors, windows, and high-current electrical wires.

System Design is typically comprised of Prewire, Rough-In, and Trim-Out. The following sections will describe each phase of the installation process as they pertain to installing ELAN S Series Multi-Room Controllers and the SPP precision Panel specifically.



System Overview

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Pre-Wire

This section will explain the specifics of pre-wiring the S Series. Care should be taken at this stage to ensure a properly operational system. Most system wiring is “home-run” from the device being installed (a keypad, for example) back to the equipment location, or “head-end”. Make sure to plan for the future when pre-wiring! It is often advantageous to pull coax along with Cat-5 to facilitate an upgrade from keypads to VIA!® Touch Panels.

VIA! Touch Panels

- Cat-5
- 16-18 AWG 2 conductor wire
- RG-6 or RG-59 coaxial cable

ELAN Keypads

- Cat-5

IR Receivers

- Cat-5

Volume Controls

- Cat-5
- 16-18 AWG speaker wire

Use stranded, twisted pair speaker wire between amplifiers and volume controls, and between volume controls and speakers. Use Cat-5 to power electronic volume controls and for volume control override when used with a COM2 Communications Controller.

Speakers

- 16-18 AWG speaker wire

Use stranded, twisted pair speaker wire between amplifiers and speakers.

Local Source/LSWP

- Cat-5

Local Sources connect to the S12 using an LSWP with Cat-5.

- RG6 or RG59 coax (if necessary)

Remotely Located Sources

- Cat-5
- RG6 or RG59 coax (if necessary)

Remotely located sources connect to the S12, S8, and S6 using an ELAN RSWP with Cat-5.

COM2 Communications Controller

- Cat-5

When using a COM2 Communications Controller, run Cat-5 for telephones. Run Cat-5 for door stations. See the COM2 manual for details.

Serial Devices

- Cat-5 or Serial Cable

Run Cat-5 or serial cables between RS-232 controllers and the S12.

Sense Inputs

- 3 conductor wire

Use Cat-5 to extend sensor leads, if necessary.

System Video

- RG-6 coax for RF or base-band video.
- RG-59 coax for base-band video only.

Use coaxial cable to distribute video to TVs and VIA! Touch Panels throughout the house.

System Audio

- RCA Interconnect Cables

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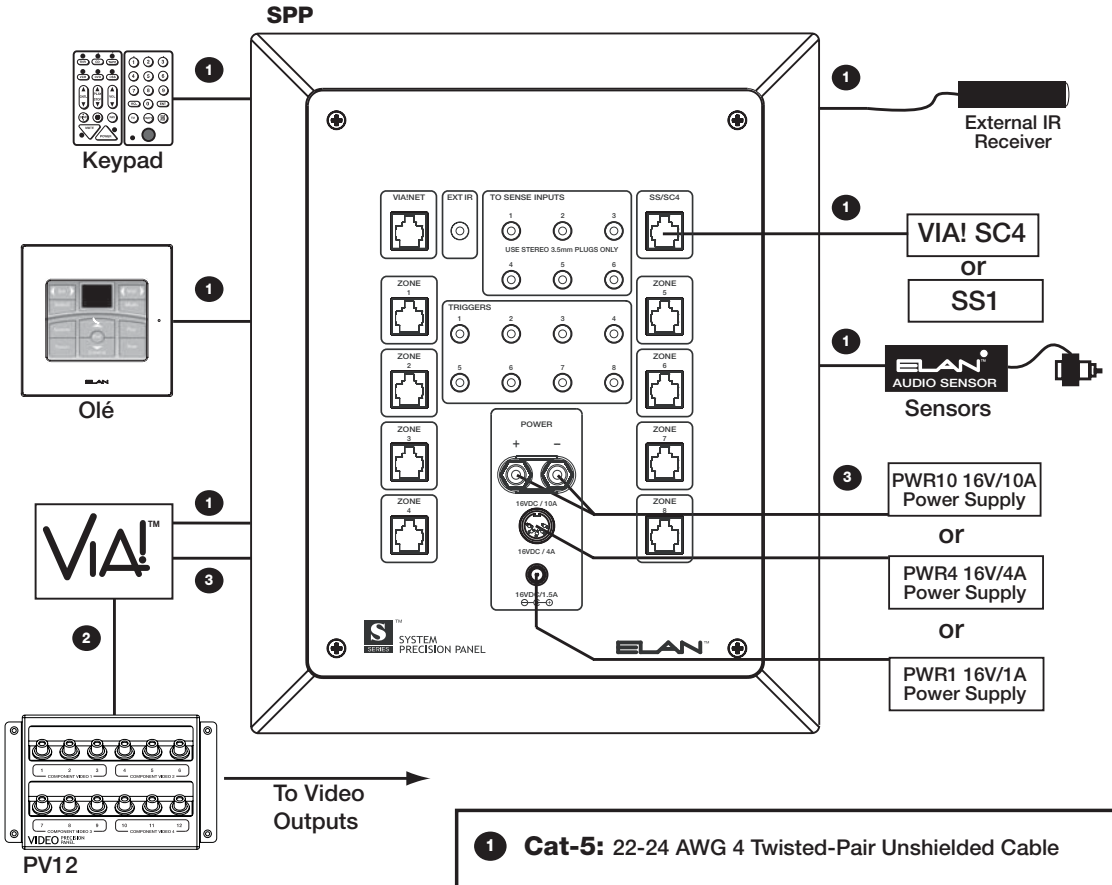
SPP System Wire Runs

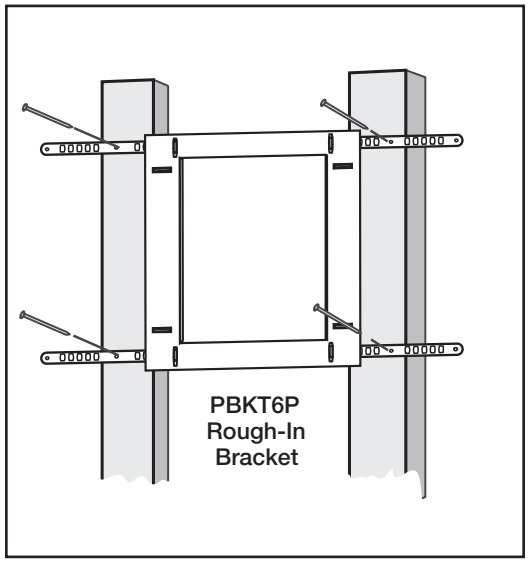


1. **Cat-5:** 22-24 AWG 4 Twisted-Pair Unshielded Cable
2. **RG-59 Coaxial Cable:** For Video
3. **16 or 18 AWG 2-Conductor Stranded Wire:** For VIA! Power

Rough-In

(Cutout Dimensions: 8"W x 10.5"H)

A new construction rough-in bracket (PBKT6P) is available for the SPP. The sliding frame on metal straps adjusts to any location between studs. Adjust the straps and screw or nail the bracket to the stud as shown below.



INSTALLATION TIP:
The cardboard insert that is packaged with the SPP can be used as a cutout template.

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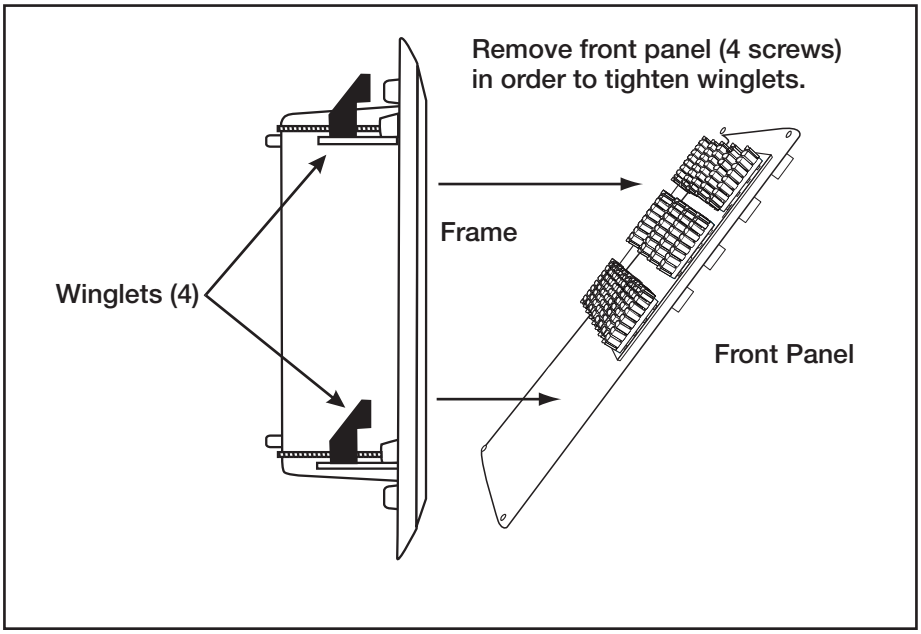
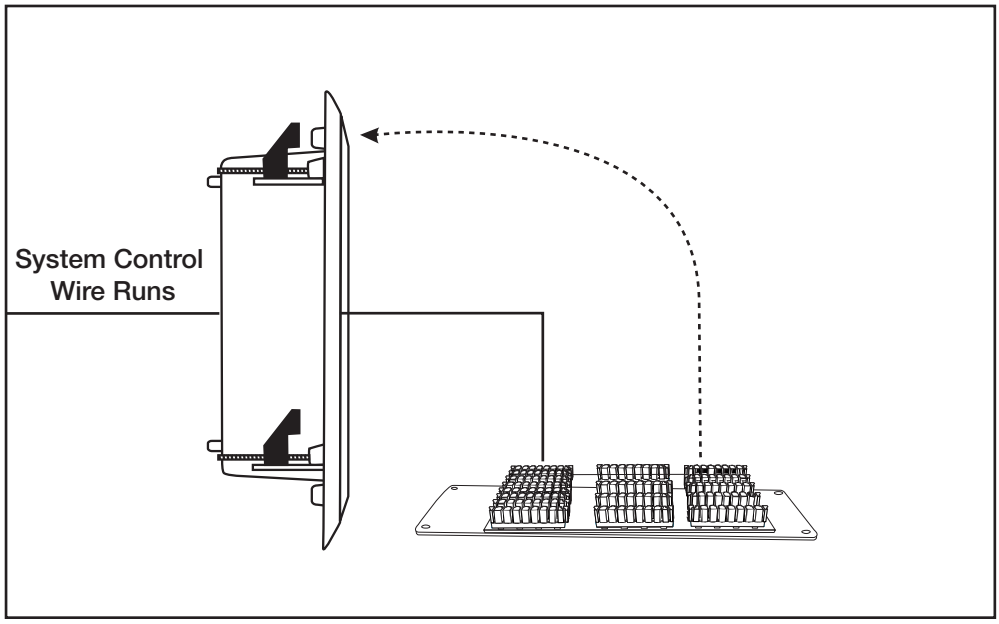
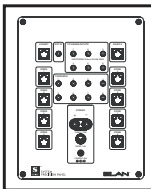
The SPP frame is equipped with four "winglets" which, when tightened, clamp the frame securely against the rough-in bracket or, in retrofit applications, against the drywall as shown in the figure below.



Trim-Out

All system wire runs are pulled through the SPP frame. Lay the SPP front panel on the floor in front of the frame and make all your connections as shown below. Dress the wires in neat bundles—being careful not to pull off any punchdown connections —and then carefully place the front panel back into the frame and secure using the four screws.





ELAN Precision Panels save time and make sense out of complex wiring jobs!

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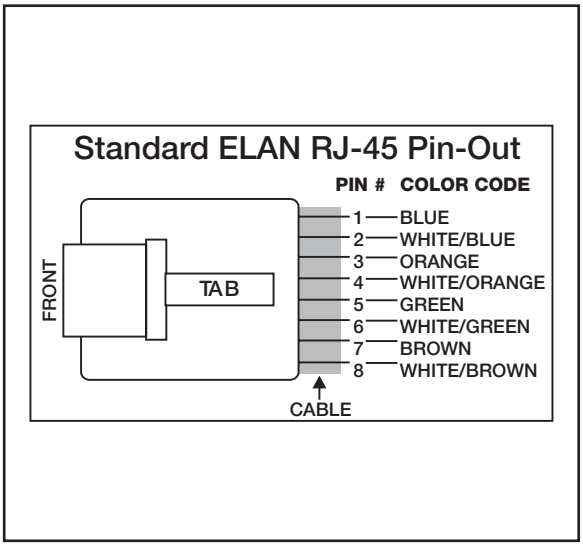
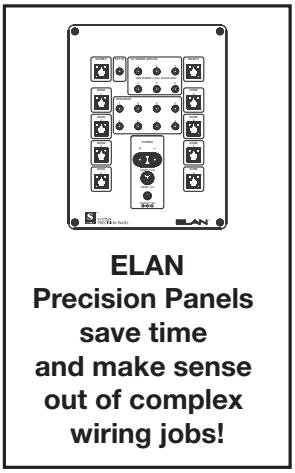
Connections
Rear Connections

RJ-45 Pin Out

ELAN recommends using ELAN C4545 and/or C45P RJ-45 interconnect cables for all Cat-5 connections to the SPP. Should you prefer to terminate your own RJ45 cables, refer to the diagram below for the correct pin-out.





ELAN Precision Panels save time and make sense out of complex wiring jobs!

SPP Punch-Down Connectors

The back of the SPP uses standard 110 punch-down connectors for all System and VIA!® Panel wire runs (with the exception of speakers and coax). Wires do not need to be stripped prior to punchdown as the insulation will automatically be displaced. Each punchdown row will accept two 24 or 22 AWG solid conductor wires. Use the included 110 punch-down tool to properly make connections and avoid damaging the SPP.

110 Punch-Down Connector

NOTE: The SPP comes with Punch-down caps to ensure that wiring connections won't come loose.

NOTE: Do not mix wires of differing gauges on a single punchdown location as this may lead to intermittent connectivity.

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VIA!®Touch Panel Connections

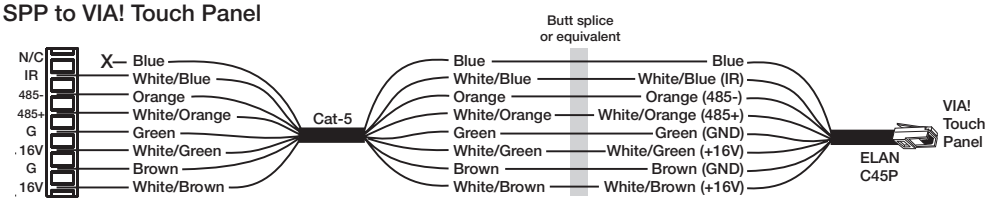
Via! Touch Panel "A" Connections 16V

The SPP is designed to work flawlessly with ELAN VIA! Touch Panels. VIA! Touch Panels require ELAN 16 Volt DC power supplies. Use the PWR10 16V/10A power supply to power up to ten VIA! Touch Panels. Use the PWR4 16V/4A power supply to power up to 4 VIA!s. Use the PWR1 16V/1A power supply to power 1 Via! Touch Panel.

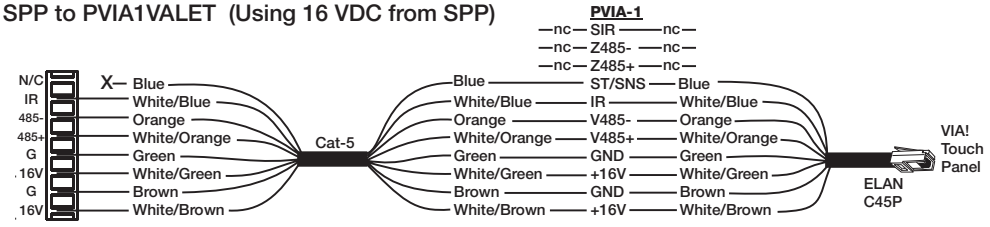
When using a VIA! Valet, a PVIA1 Valet Wall Plate must be used. One PVIA Wall Plate is included with each VIA! Valet. The installer has the option of using the included PVIA1 power supply or one of the other 16V power supplies to provide power to the Valet.

VIA! Touch Panels punch-down to the rear of the SPP at two locations, depending on system configuration. These locations are labelled "ZXA 16V VIA!/OLÉ" and "ZXB 16V/12V VIA!/OLÉ" where "X" corresponds to the zone that the touch panel(s) will control. Two touch panels can connect to each punch-down location for each zone. If using more than 2 touch panels per location, make connections off of the SPP and use jumper wires to punch-down to the correct location. The diagram below shows the correct wiring for one touch panel in Zone 1 connected to the "A" location and utilizing 16VDC power from the PWR1, PWR4, or PWR10 power supply connected to the front of the SPP.

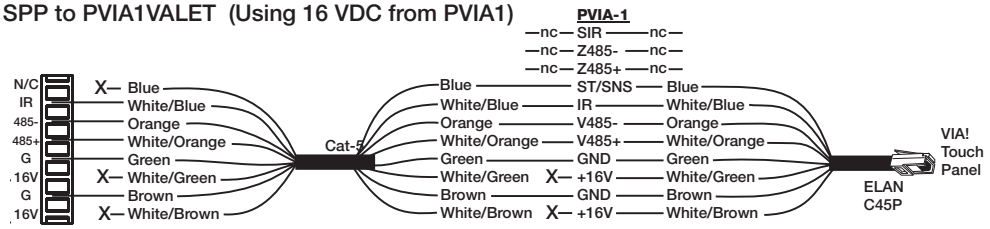
SPP to VIA! Touch Panel



SPP to PVIA1VALET (Using 16 VDC from SPP)



SPP to PVIA1VALET (Using 16 VDC from PVIA1)



When connecting a PVIA1 Valet Wall Plate to the SPP, use either the included PVIA1 power supply connected to the PVIA1 Wall Plate, or a PWR10, PWR4 or PWR1 power supply connected to the SPP.

DO NOT USE BOTH POWER SUPPLIES!

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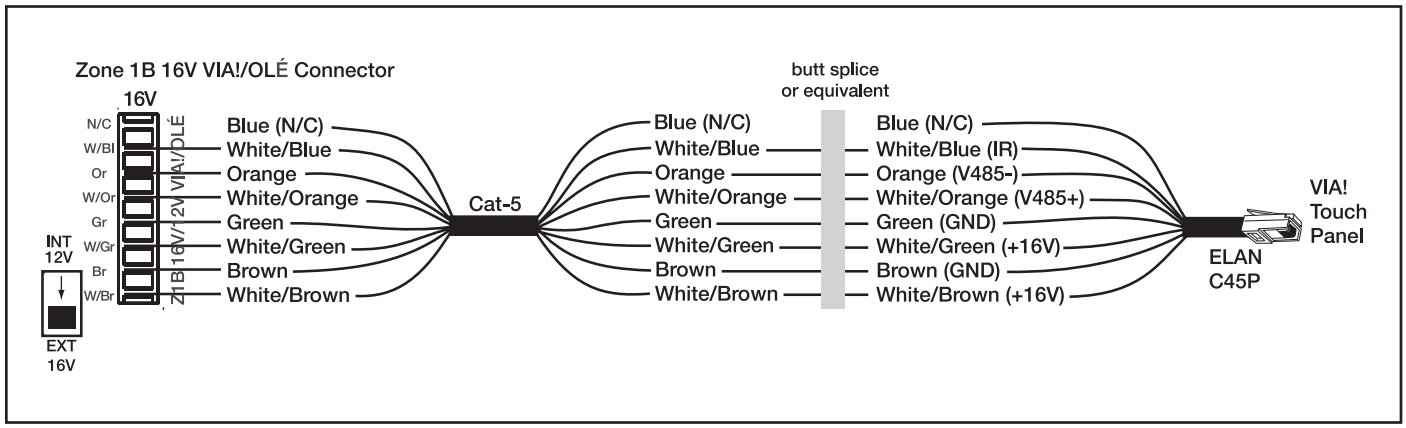
Via!Touch Panel "B" Connection 16V

The diagram below shows VIA! Touch Panel connections when the "B" punch-down location is used.

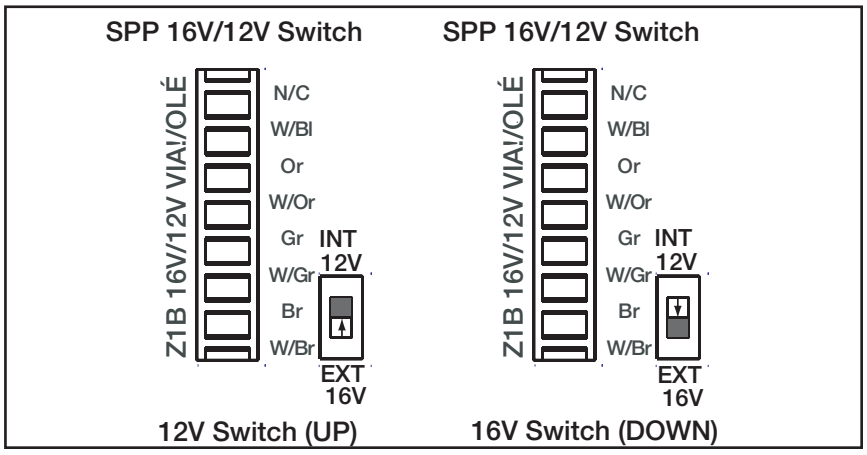
NOTE: Place the "INT 12V/EXT 16V" switch in the DOWN ("EXT 16V") position for this application. This allows the external 16VDC power from the PWR1, PWR4, or PWR10 power supply connected to the front of the SPP to reach the touch panel(s).



NOTE: Refer to the diagram on p. 9 for VIA!Valet6.4 connectivity. The "INT 12V/EXT 16V" switch will be in the "EXT 16V" position.

INT 12V-EXT 16V Switch

The **INT 12V-EXT 16V** switch selects between internally generated voltage from the S Series Controller (+12 VDC) for use with Z•Pad Keypads and Olé Touchpads, or externally generated voltage from a +16 VDC power supply connected to the front of the SPP Precision Panel to be utilized by Olé Touchpads and VIA!®Touch Panels. This selection applies only to the "**Z#B 16V/12V OLÉ/ZPAD**" punchdown location. Select **INT 12V** (UP) when 12 VDC is required for keypads and touchpads. Select **EXT 16V** (DOWN) when using an external 16 VDC power supply for touch panels or touch pads.



Olé Film Interactive Touchpads

Olé Film Interactive Touchpads punch-down to the rear of the SPP at three locations, depending on system configuration. These locations are labelled "ZXA 16V VIA!/OLÉ", "ZXB 16V/12V VIA!/OLÉ" and "ZXC 12V OLÉ/ZPAD" where "X" corresponds to the zone that the touchpad(s) will control. Two touchpads can connect to each punch-down location for each zone. If using more than 2 touchpads per location, make connections off of the SPP and use jumper wires to punch-down to the correct location. Olé Touchpads will operate using either 12V or 16V.

NOTE: Whenever Olé Touchpads are used with an S8 Series Controller (or with any system controller that has a VIA!SC-4 or SS1 connected), set the switch on the rear of the touchpad to the "VIA!NET" position.

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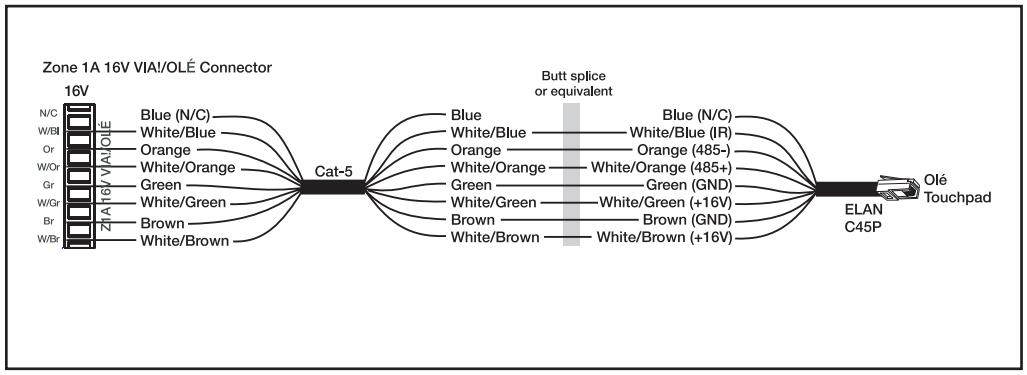
Olé "A" Punchdown Locations-16V VNET

The diagram below shows connectivity to the "A" location when utilizing 16VDC power from a PWR1, PWR4, or PWR10 16VDC power supply connected to the front of the SPP.

NOTE: The "A" punchdown location is always connected to the external 16VDC power from a PWR1, PWR4, or PWR10 16VDC power supply connected to the front of the SPP.



IMPORTANT NOTE
Olé Touchpads
Use the correct power supply connected to the front of the SPP for the number of Olé Touchpads and VIA! Touch Panels in the system.

Olé = 150mA
VIA! = 1A

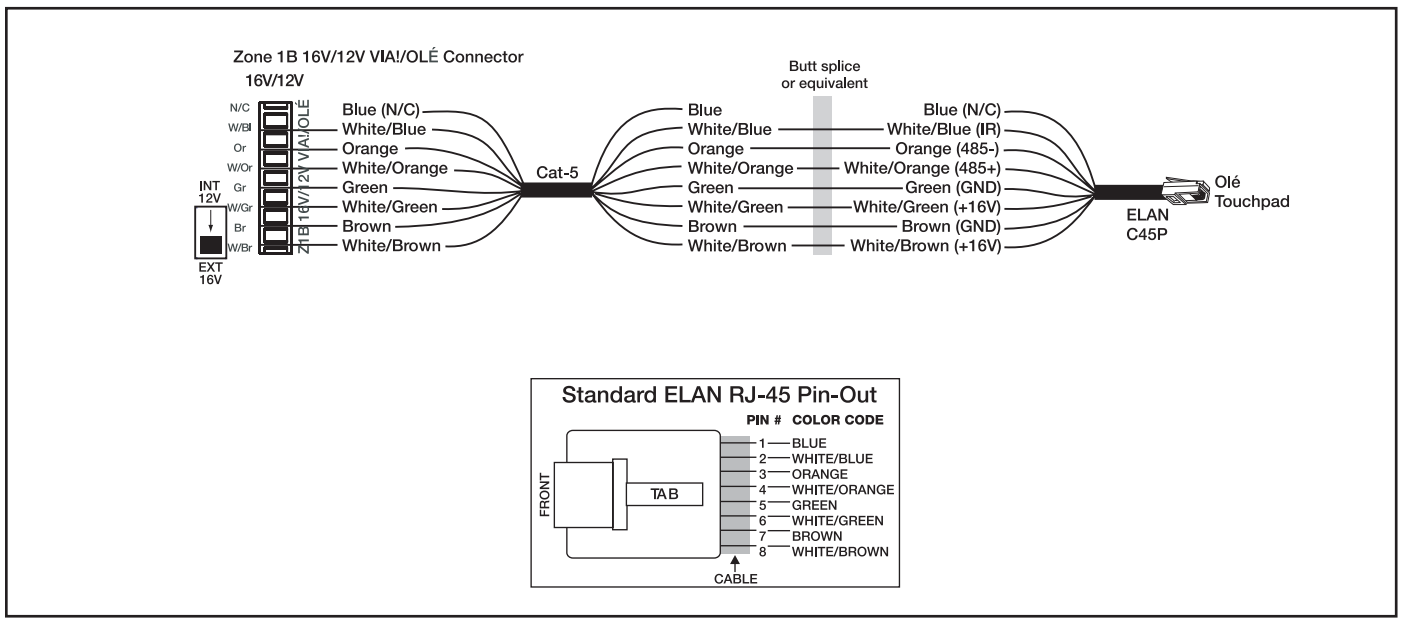
PWR1 = 1A
PWR4 = 4A
PWR10 = 10A

Olé "B" Punchdown Locations-16V VNET

The SPP Precision Panel has the ability to connect touchpanels, keypads and Olé Touchpads in various combinations in each zone. The "B" punchdown location can either pass 12VDC power from the S Series Controller (Internal Power) or 16VDC from a power supply connected to the front of the SPP (External Power).

The diagram below shows connectivity to the "B" location when utilizing 16VDC power from a PWR1, PWR4, or PWR10 16VDC power supply connected to the front of the SPP.

NOTE: Place the "INT 12V/EXT 16V" switch in the DOWN ("EXT 16V") position for this application.



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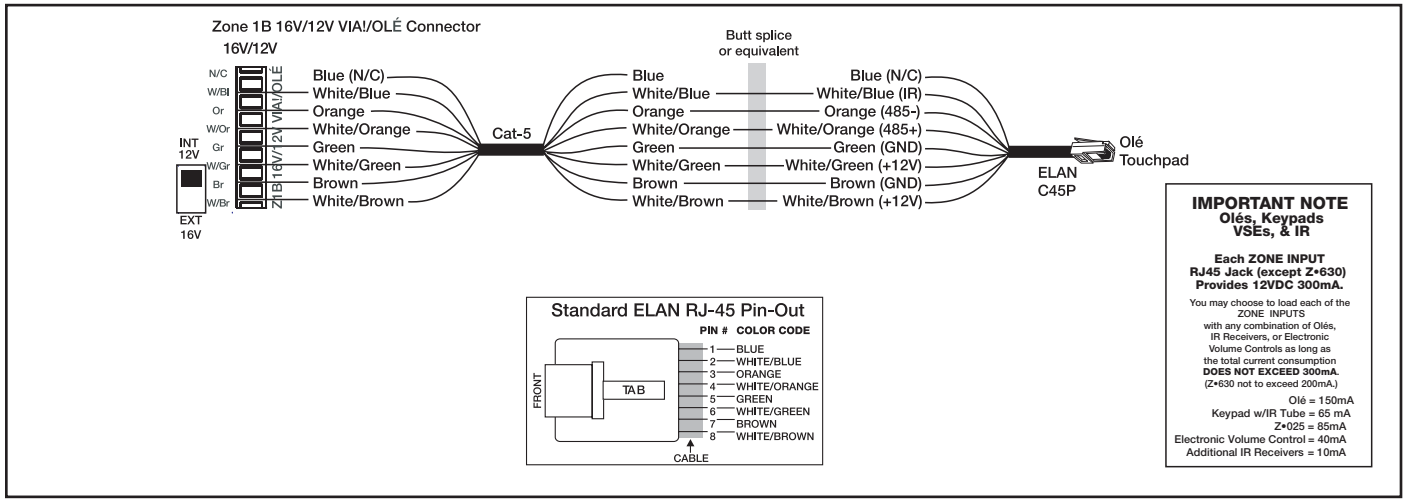
Olé "B" Punchdown Locations-12V VNET (S8.6 Only)

The diagram below shows connectivity to the "B" location when utilizing internal 12VDC power from an S8.6 Multi-Room Controller.

NOTE: Place the "INT 12V/EXT 16V" switch in the UP ("INT 12V") position for this application.



Olé "C" Punchdown Locations-12V ZNET

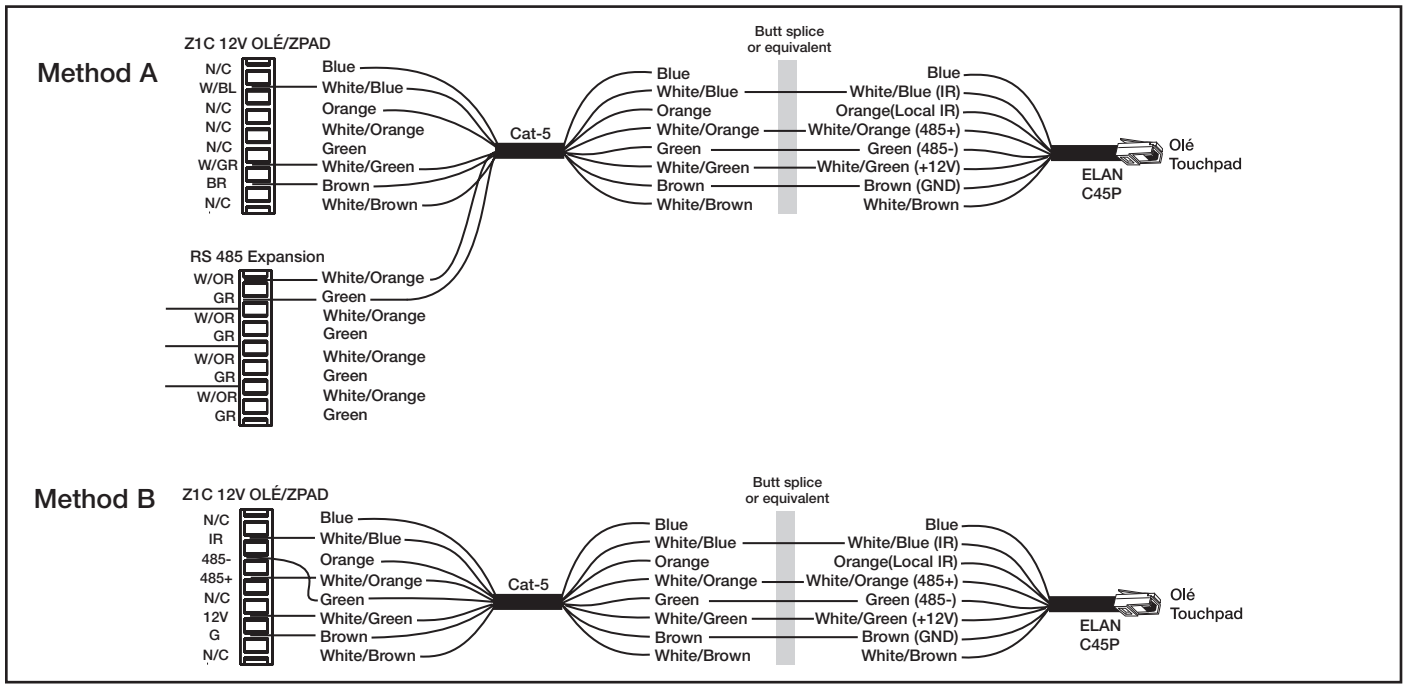
There are two methods available when connecting Olé Touchpads as zone controllers in an S6/S12 based system. Set the ZNET/VNET switch to the ZNET position and if using more than 2 touchpads per location, make connections off of the SPP and use jumper wires to punch-down to the correct location.

Method A

Punch the 485+ (Wh/Orange) and 485- (Green) wires down to the **RS 485 Expansion** block located below the SS/SC4 switch as shown on the S**6/S12 Overlay**.

Method B

Remove the S**6/S12 Overlay.** Punch the 485+ (Wh/Orange) to the 485+ location on the SPP and punch the 485- (Green) wire to the 485- location on the SPP as shown below.



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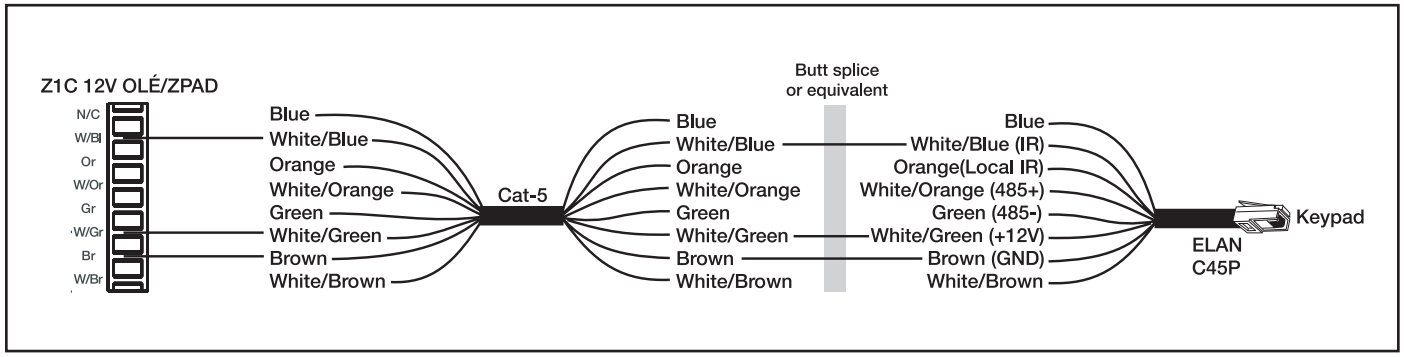
Z•Pad Connections

Keypad "C" Punchdown Locations-VNET (S8.6 Only)

It is possible to use ELAN Z•Pad keypads as zone controllers in an S8.6-based system. These keypads will control IR sources and S8.6 Controller function, but they WILL NOT receive RS-485 status feedback. This means that source selection status, shared source status, etc. will not be available to these keypads. Source selection and control are enabled and will function correctly.



NOTE: ELAN Z•PAD keypads will NOT receive status feedback when connected to the S8.6. DIP settings on keypad are not required.

Keypad "C" Punchdown Locations-ZNET (S6/S12 Only)

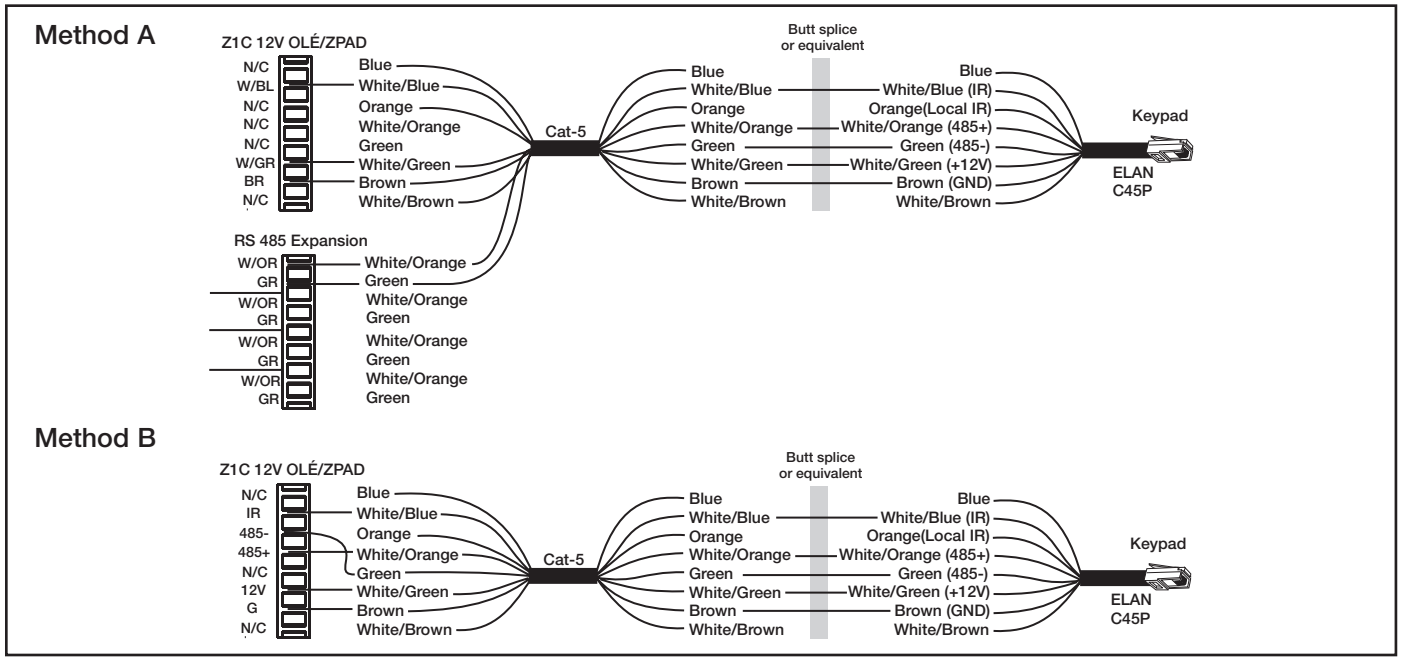
There are two methods available when connecting ELAN Z•Pad keypads as zone controllers in an S6/S12 based system. Set the ZNET/VNET switch to the ZNET position and if using more than 2 keypads per location, make connections off of the SPP and use jumper wires to punch-down to the correct location. When using a VIA!SC-4 or SS1 System Station, set the SS/SC4 switch to the ON (Up) position and follow **Method A**.

Method A

Punch the 485+ (Wh/Orange) and 485- (Green) wires down to the **RS 485 Expansion** block located below the SS/SC4 switch as shown on the S**6/S12 Overlay**.

Method B

Remove the S**6/S12 Overlay.** Punch the 485+ (Wh/Orange) to the 485+ loction on the SPP and punch the 485- (Green) wire to the 485- location on the SPP as shown below. Use **Method B** only if there is no VIA!SC-4 or SS1 connected to the system.



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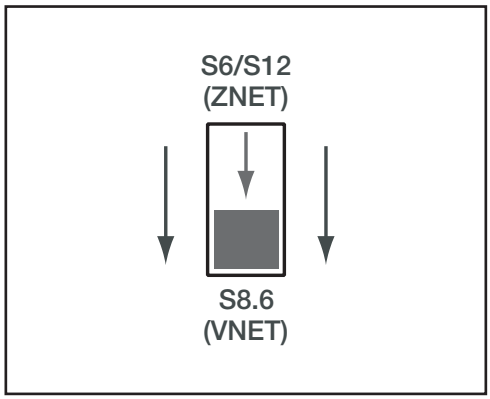
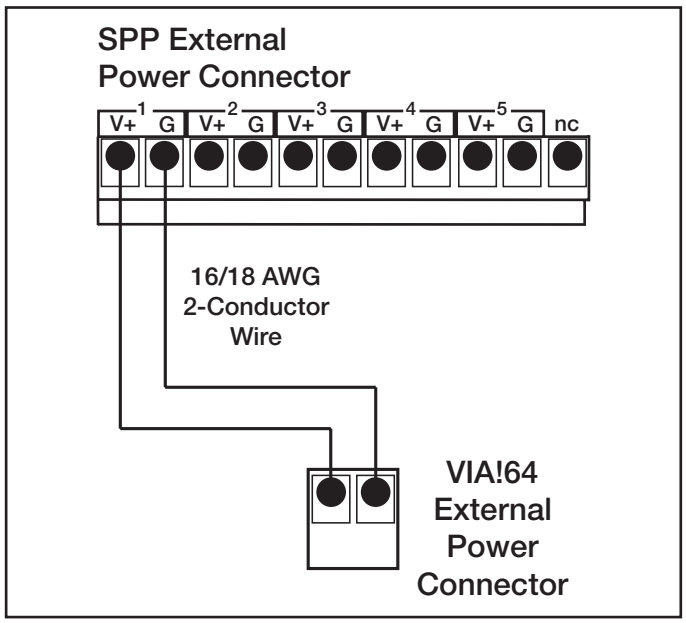
ZNET/VNET Switch

The **ZNET-VNET** switch selects between systems based on ELAN's ZNET (S6 and S12 Multi-Room Controllers) and VNET (S8). This switch will always be in the VNET position when installing the SPP with a S8 controller. When using multiple SPPs, set the switch to the same position on each Precision Panel.



External Power Connections

Use the **V+** and **G** screw terminal connections at the bottom edge of the SPP Precision Panel to connect 2 conductor wires (14-18 AWG) to power VIA! Touch Panels that **DO NOT** use the Cat-5 power wiring option and **DO** use the external power connector located on the touch panel. This application is typically used for long wire runs greater than 110 feet in length. It is not necessary to use both the Cat-5 power connections (located on the Zone punchdown locations) and the External Power connectors described here.



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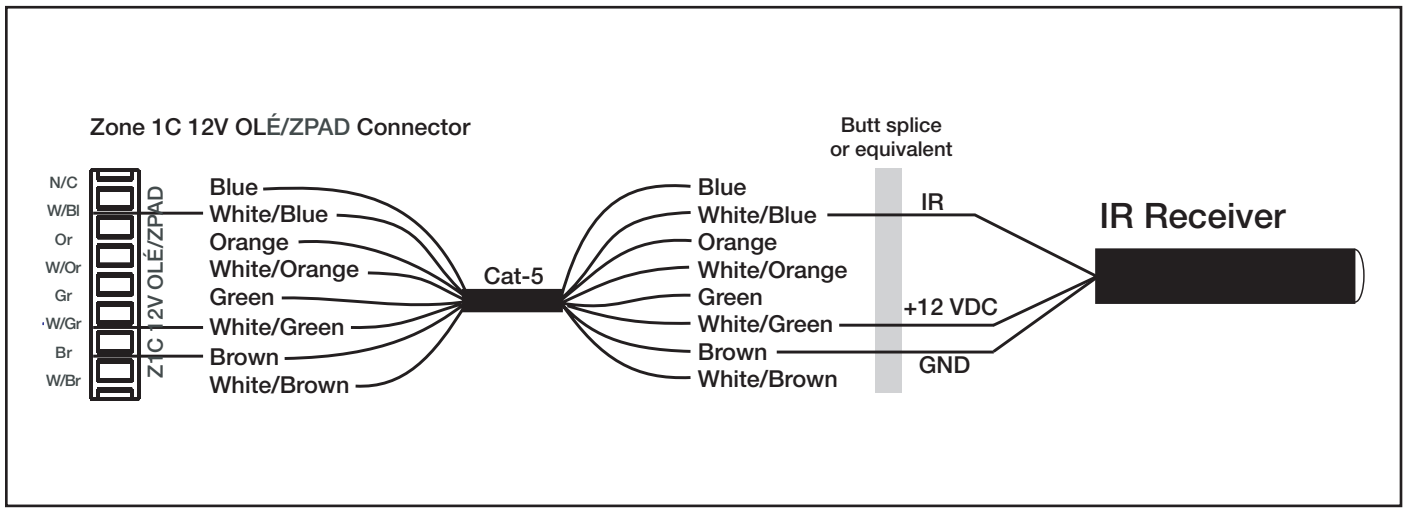
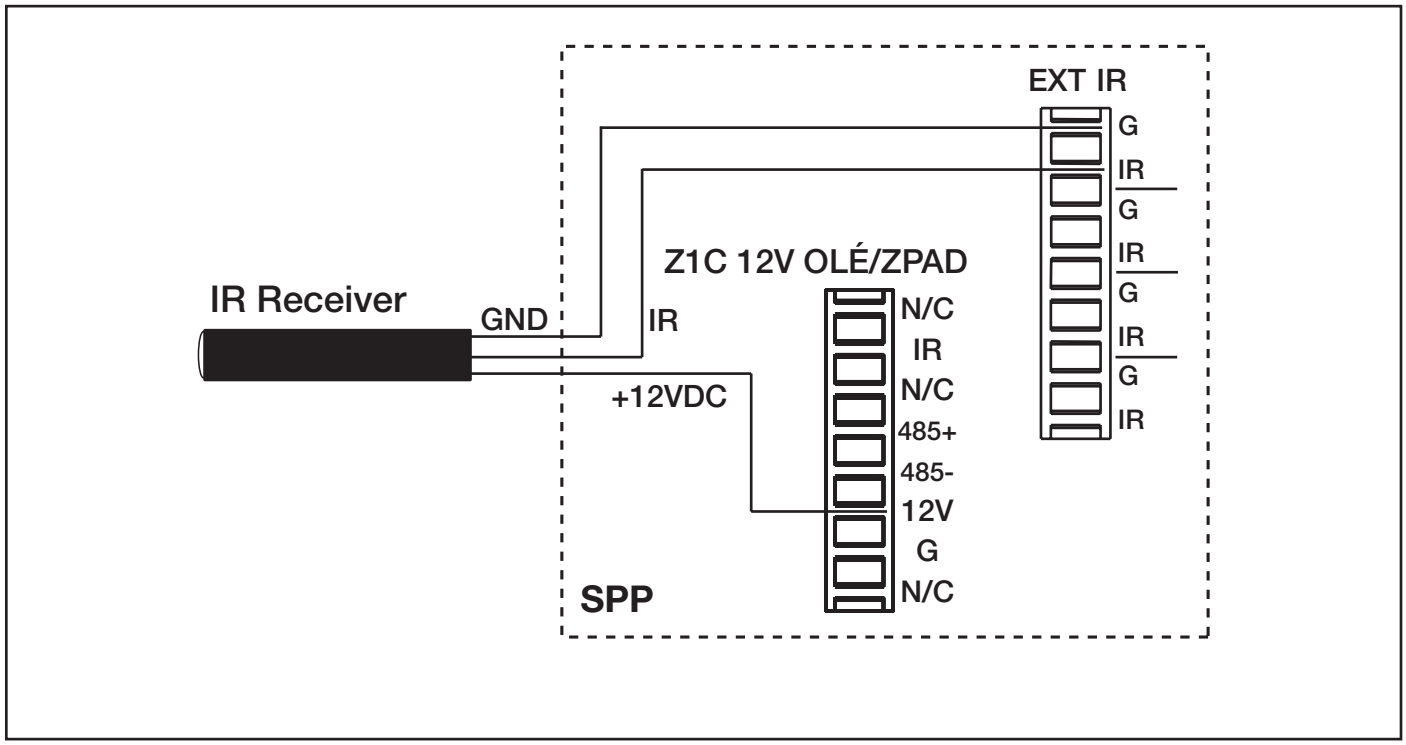
IR Receiver Connections-Zone

Stand-alone IR receivers can easily connect to the SPP KP punch-downs. Connect +12V, IR, and GND to the specific zone that is to be controlled.



External IR Input (EXT IR IN) Connections

Use the **External IR Input** to send IR from a location that is not part of a zone to the Ext. IR Input of the S12 or SS1 System Station in order to control system sources. By default, IR routed in this way comes out all of the source IR Emitter Outputs and the 'ALL' IR Outputs simultaneously.



NOTE: A +12V connector on any of the Olé/ZPad punch-down connectors can be used to power the IR receiver.

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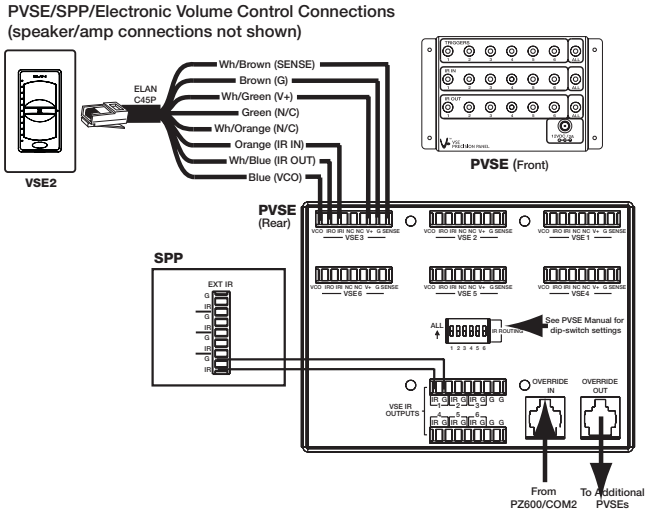
PVSE Precision Panel

Use of ELAN's PVSE Precision Panel will greatly simplify integration of electronic volume controls with the S Series. The back of the PVSE features six clearly labeled 110 punch-down blocks that provide independent connections for Override, IR and Sense; plus two additional punch-down connectors for easy routing of VSE IR signals to the SPP Precision Panel (SPP) **EXT IR** punch-down for S12 applications or the **Zone** punchdown for S6 and S8 applications as shown below.

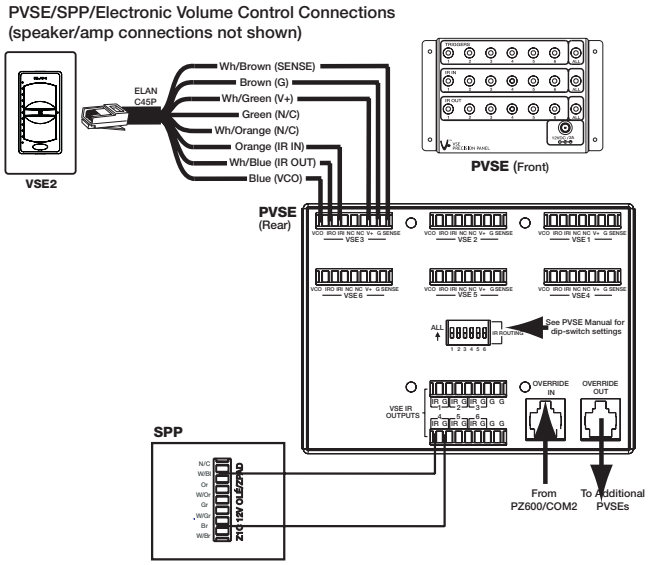
Two RJ-45 jacks on the rear of the panel make it easy to route override signals to the PZ600 Communication Controller Precision Panel or from the COM2 Communications Controller, and to link multiple PVSE panels together. There's also a bank of six dip switches that allow configuration of the front-panel VSE-specific IR Out ports into 'ALL' IR ports.

The diagram below shows the wiring of a single electronic volume control to a PVSE, then to the SPP.

S12 application



S6-S8 application



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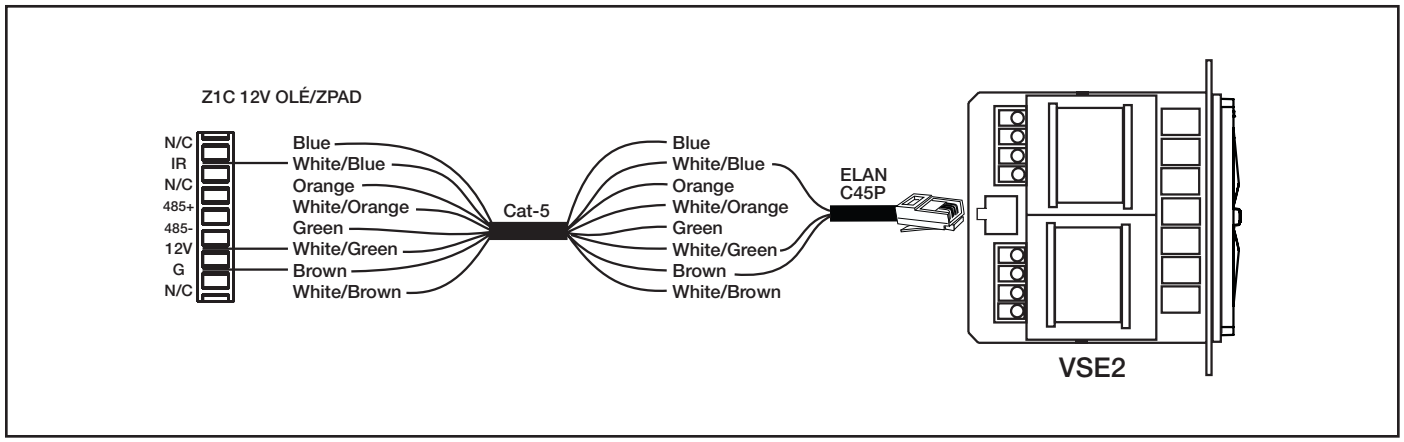
SPP to VSE100/VSE2 (No PVSE Precision Panel)

It is possible to connect electronic volume controls to a SPP without using a PVSE Precision Panel as the following diagram shows. IR, +12V, and GND are connected to the SPP (speaker/amp/override connections are not shown).

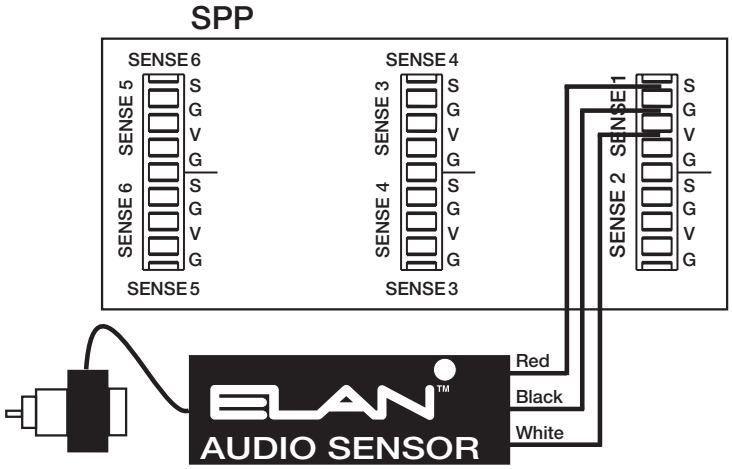


Sense Trigger Inputs

The **Sense Trigger Inputs** of the S Series are primarily for use with VIA!® Touch Panels. An ELAN™SENSE Sensor can be connected that will cause VIA! Touch Panels to execute IR or serial commands. Use VIA!®Tools setup software to set up Trigger Input functionality. Wiring the Sense Inputs consists of punching down Voltage (V), Sense (S), and Ground (G) as shown below.

ELAN™SENSE Sensors provide for a multitude of automation requirements:

- **Audio Sensor**: Detects line-level audio utilizing an RCA adaptor.
- **Video Sensor:** Detects Composite video utilizing an RCA adaptor.
- **Light/LED Sensor:** Detects ambiant light or multi-color LEDs.
- **Contact Closure Sensor:** Detects closed-contact ON/OFF status.
- **Current/Magnetic Sensor:** Detects electric current through power cords or magnetic flyback.
- **Voltage Sensor:** Detects 3-24 Volts AC or DC.
- **Doorbell Sensor:** Detects multiple doorbell signals for advanced switching functionality.



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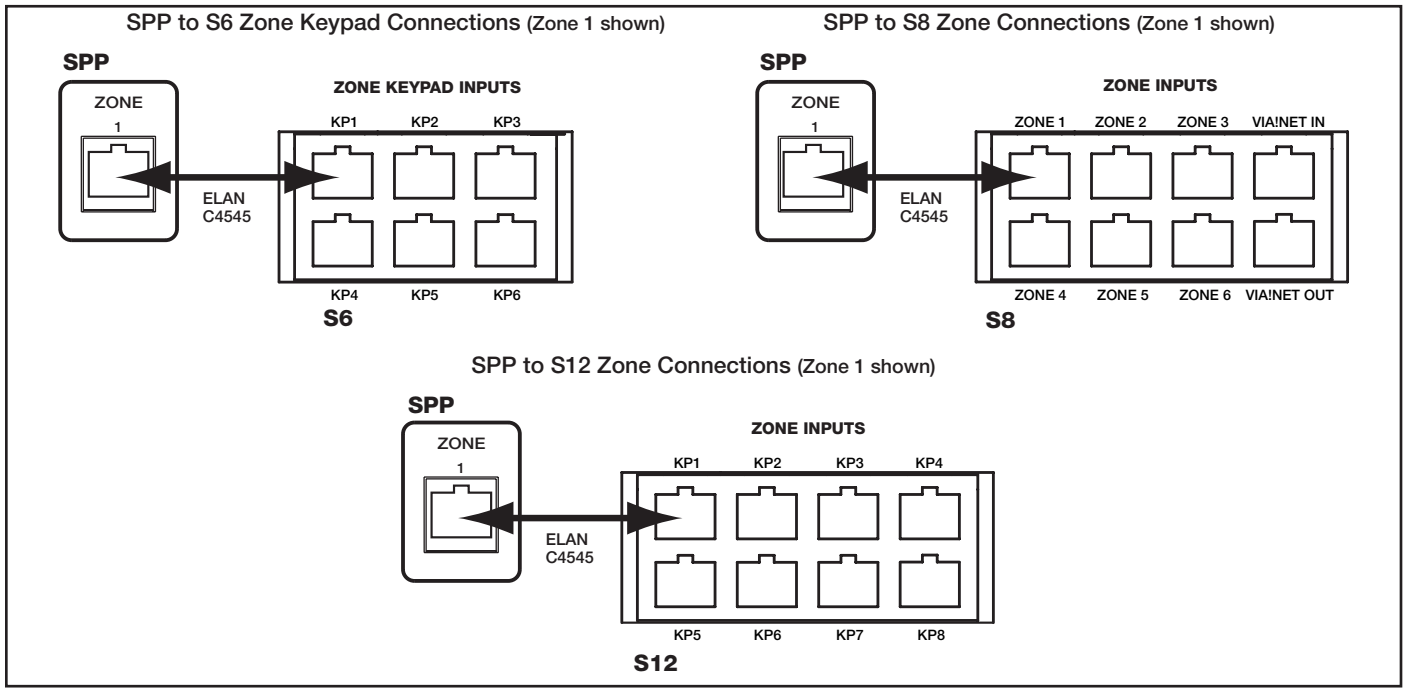
Front Connections

Zone Keypad Inputs

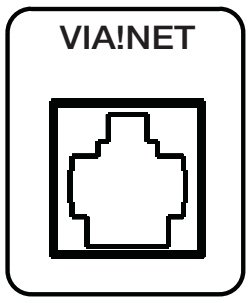
Connect a straight-through RJ-45 interconnect cable (ELAN C4545 1 or 2 meter) between the System Zone Keypad Inputs and the SPP's **Zone** 1-8 RJ-45 jacks. This routes all keypads, touch panels, and IR receivers punched-down on the back of the SPP directly to the S Series chassis.

NOTE: In order to facilitate RS-485 communication, Zone 1 must ALWAYS be connected between the System Controller and the SPP Precision Panel.



VIA!NET Connection

This RJ-45 connector is reserved for future use.



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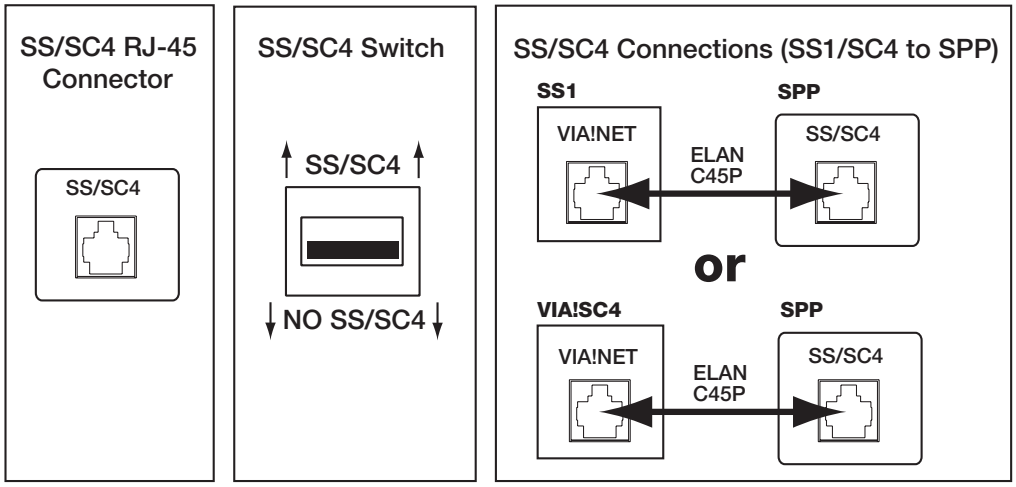
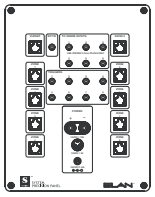
SS/SC4 Connection

Use the **SS/SC4** RJ-45 connector to integrate an ELAN SS1 System Station or VIA!SC-4 System Controller to an S Series Multi-Room Controller in order to facilitate integration of RS-232 controlled systems such as security, lighting, or HVAC. Use an ELAN C4545 RJ-45 Interconnect Cable for this purpose. It is necessary to flip the DIP switch on the rear of the SPP labeled **SS/SC4** and **NO SS/SC4** to the **SS/SC4** (upper) position when connecting to a VIA!SC-4 or SS1. Place the switch in the lower position (**NO SS/SC4**) when not connecting to a VIA!SC-4 or SS1.

When connecting multiple SPPs and a VIA!SC-4 or SS1, connect the VIA!SC-4 or SS1 to SPP #1 and set the DIP switch on **each SPP** to the **SS/SC4** position.



NOTE: The SS/SC4 Connector on the SPP does not supply power for VIA!SC-4 applications. Use a PWR1 16 VDC external power supply to power the VIA!SC-4.



ELAN Precision Panels save time and make sense out of complex wiring jobs!

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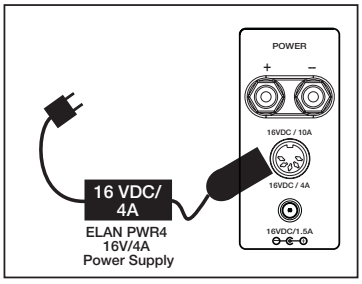
VIA!®Power

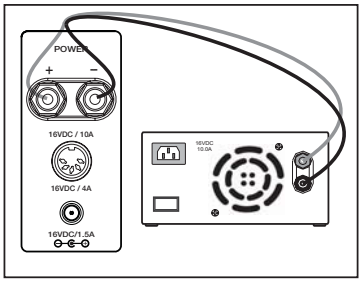
It is possible to connect and power up to ten VIA!® Touch Panels using the SPP and a PWR power supply. Use an ELAN PWR1 16VDC/1.5 power supply for one VIA!® Touch Panel or 6 Olé Touchpads. Use an ELAN PWR4 16VDC/4A power supply for up to four VIA!® Touch Panels or 27 Olé Touchpads. Use an ELAN PWR10 16VDC/10A power supply for five to ten VIA!® Touch Panels or 66 Olé Touchpads.

NOTE: Only one power supply should be connected to the SPP at any one time!

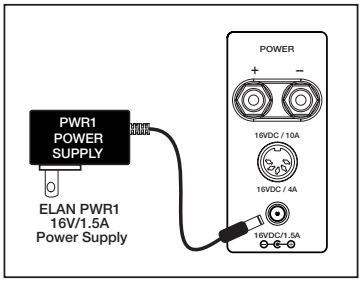
16V/4A Power Supply Connections



16V/10A Power Supply Connections



16V/1.5A Power Supply Connections



IMPORTANT NOTE
Olé Touchpads and VIA! Touch Panels

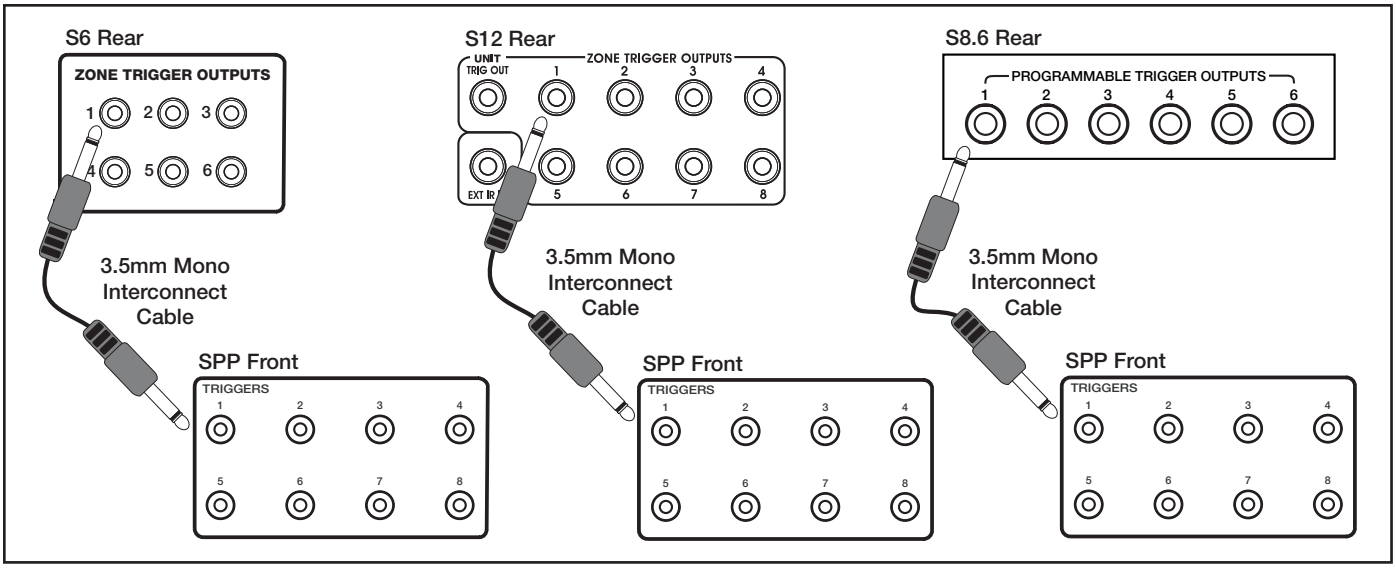
Use the correct power supply connected to the front of the SPP for the number of Olé Touchpads and VIA! Touch Panels in the system.

Olé = 150mA
VIA! = 1A

PWR1 = 1.5A
PWR4 = 4A
PWR10 = 10A

Trigger Connections

There are 8 mono 3.5mm **Triggers** connections on the front of the SPP Precision Panel. After punching down trigger connections on the back of the SPP, use a 3.5mm mono 'mini-to-mini' interconnect cable to connect to the S Series Trigger Outputs as shown below. These can be used, for example, to mute/un-mute a specific VSE100 or VSE2 etc. Consult your S Series installation manual for specific details on use of these connections.



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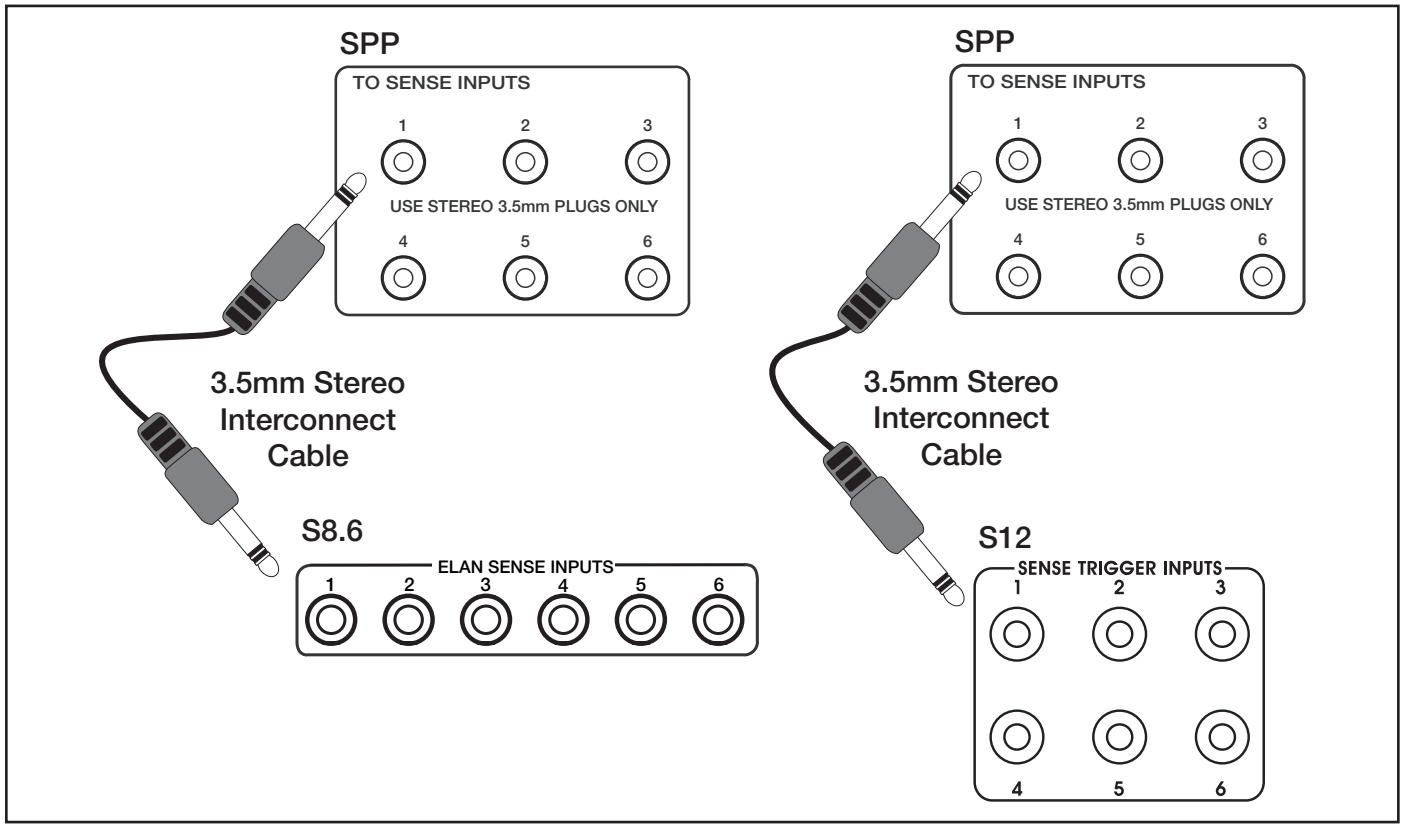
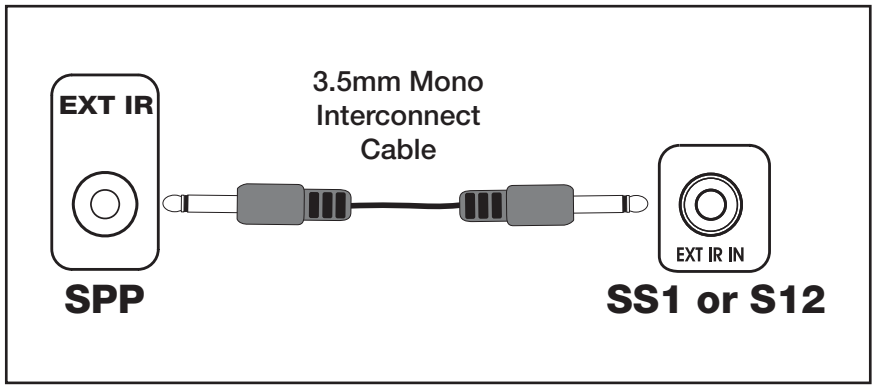
To Sense Inputs

After punching-down sensors to the Sense Trigger Inputs on the rear of the SPP, simply plug 3.5 mm stereo interconnect cables from the **To Sense Inputs** on the front of the SPP to the desired Sense Trigger Inputs of the System Controller. Make absolutely sure to maintain correct input/output relationship (Sense 1 on the back of the SPP must end up connected to Sense 1 on the System Controller).



EXT IR Connections

The **External IR** connector is a powerful feature that can enable specialized functionality in situations where system wide (not zone specific) IR control are needed in conjunction with a S12 or SS1 System Station. IR receiver wire runs are punched down to the EXT IR 110 punchblock on the back of the SPP and a mono 3.5mm 'mini-to-mini' interconnect cable is connected to the **EXT IR** connector on the S12 or SS1. See VIA!®TOOLS 'HELP' file for information on EXT IR programming.



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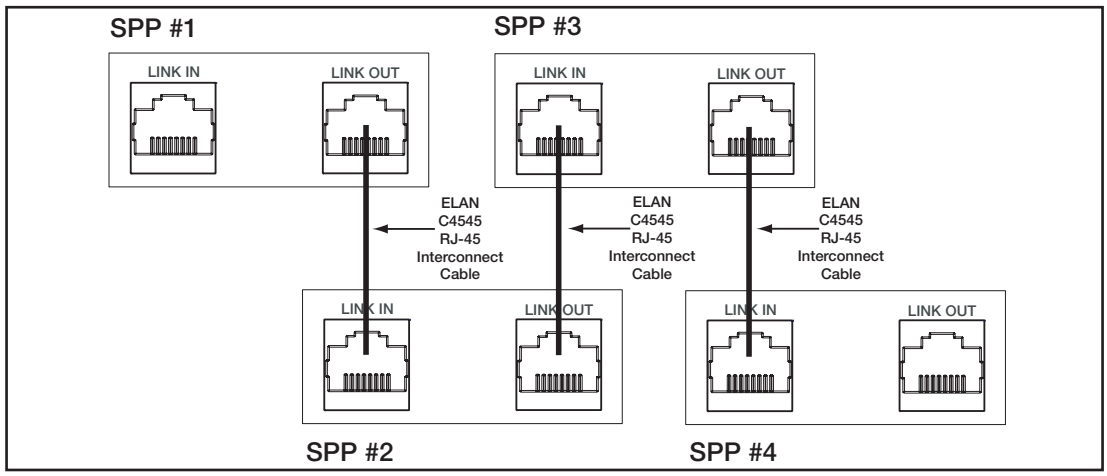
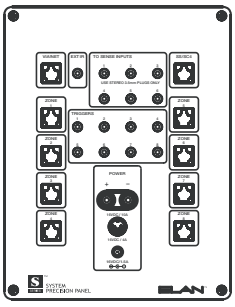
Multi-Chassis Connections

When using more than one System chassis, an additional SPP Precison Panel per chassis is necessary. Connect the **Link In/Link Out** RJ-45 jacks on the rear of the SPP's as shown below. ELAN recommends C4545 RJ-45 interconnect cables for these connections. See p. 19 for SS1/SC4 dipswitch settings when connecting multiple SPP's.



NOTE: When using multiple SPPs, always begin each succeeding chassis on the next Precision Panel. DO NOT 'span' multiple chassis on a single SPP.



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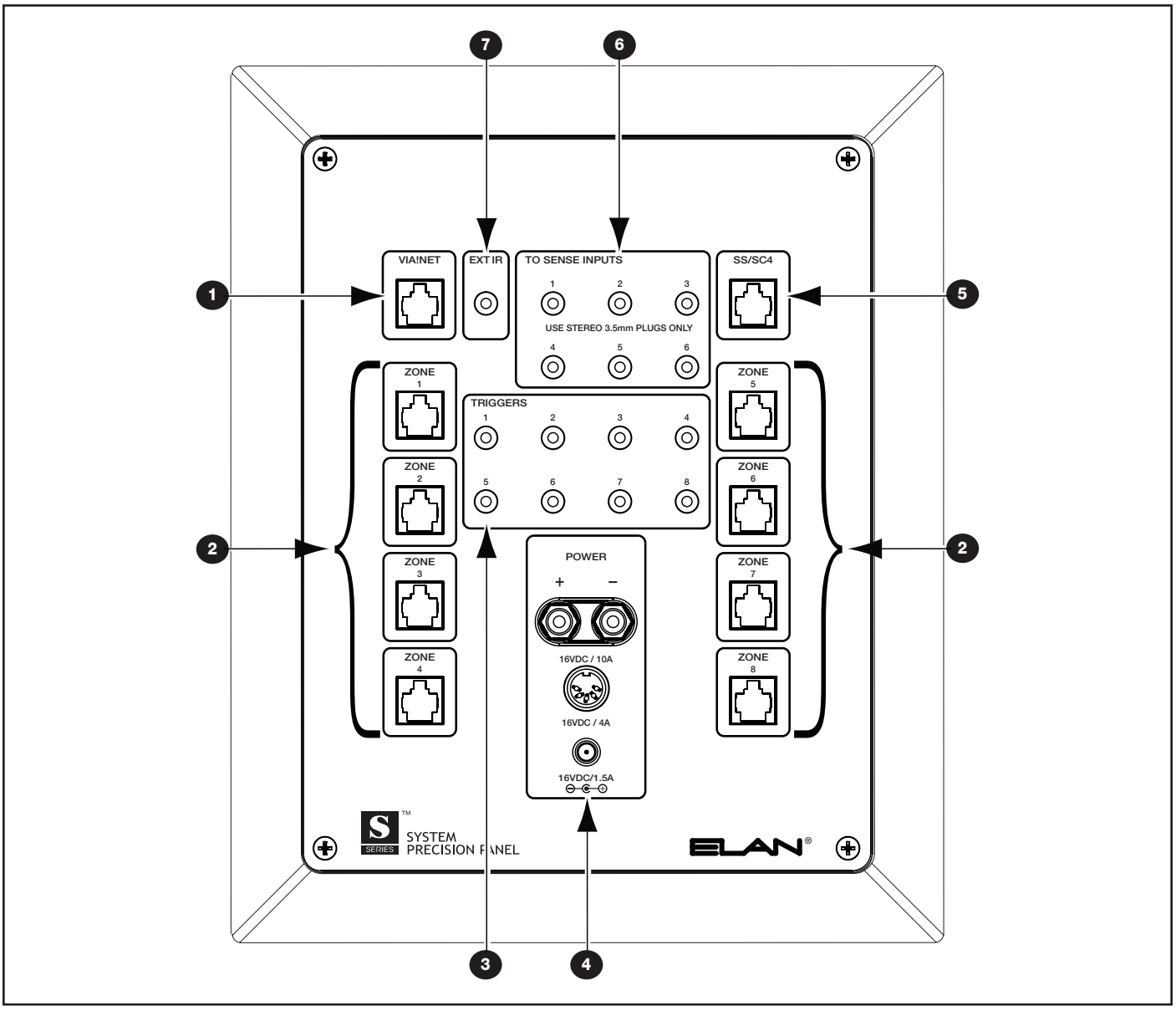
Quick Reference Guide

Front Panel Connections



1. VIA!NET RJ-45 Port
2. Zone 1-8 RJ-45 Ports
3. 3.5mm Mono Triggers Connections
4. 16 VDC Power Connections for PWR1, PWR4 & PWR10 Power Supplies
5. SS1/SC4 RJ-45 Port
6. 3.5mm Stereo Sense Input Connections
7. 3.5mm Mono EXT IR Connection

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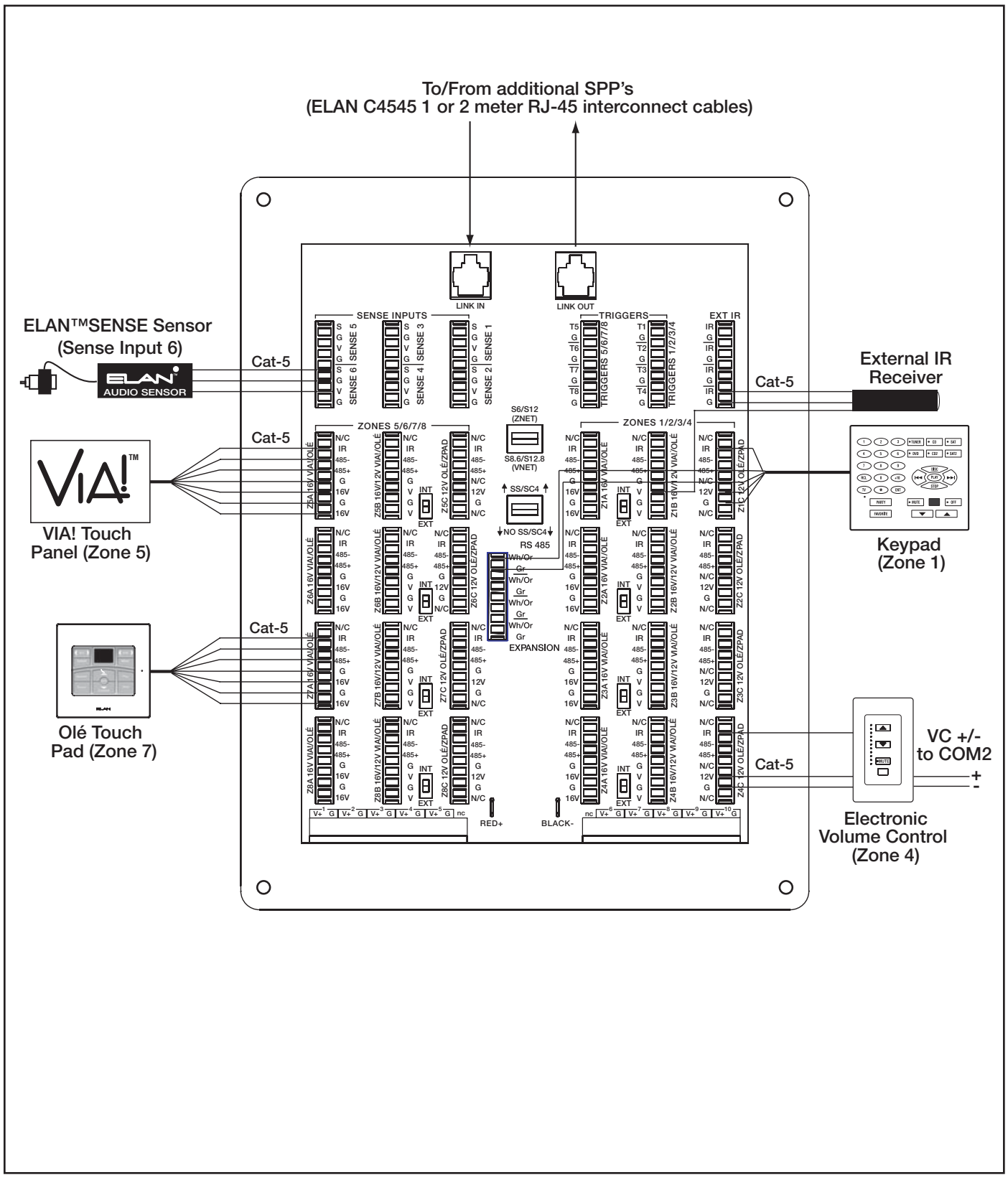
Rear Panel Connections



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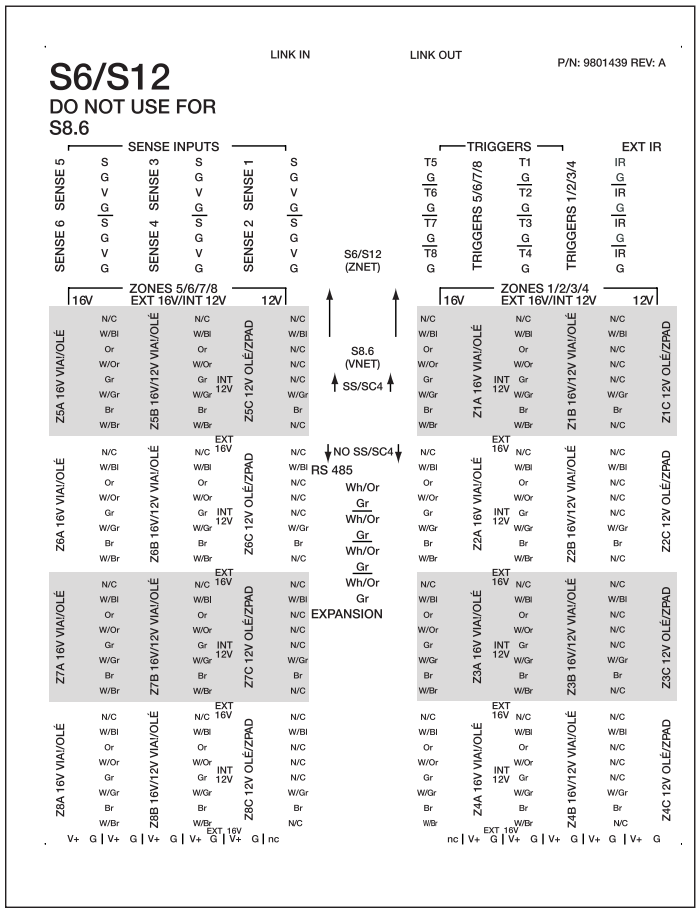
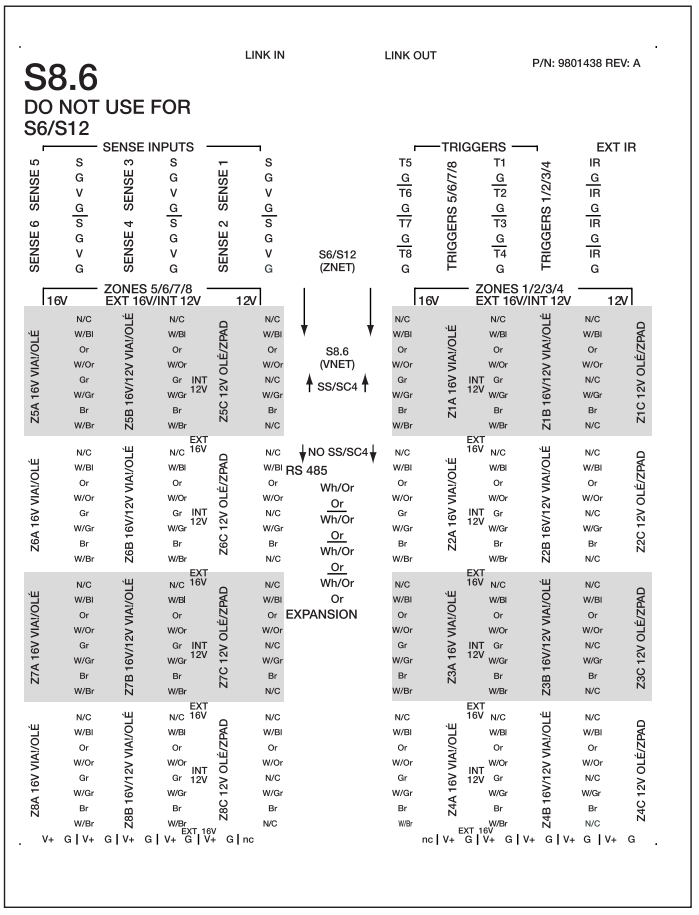
Appendix:
Rear Overlays

Prior to making any connections on the SPP, place the appropriate overlay on the rear of the Precision Panel for the system type that is being installed. For System12 and System6-based installations, use the overlay called S6/S12. For System8-based installations, use the overlay called S8.6.



S6/S12



S8.6

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Limited Warranty

ELAN HOME SYSTEMS L.L.C. ("ELAN") warrants the SPP Precision Panel to be free from defects in materials and workmanship for the period of two years (2 years) from date of purchase. If within the applicable warranty period above purchaser discovers that such item was not as warranted above and promptly notifies ELAN in writing, ELAN shall repair or replace the item at the company's option. This warranty shall not apply (a) to equipment not manufactured by ELAN, (b) to equipment which shall have been installed by other than an ELAN authorized installer, (c) to installed equipment which is not installed to ELAN's specifications, (d) to equipment which shall have been repaired or altered by others than ELAN, (e) to equipment which shall have been subjected to negligence, accident, or damage by circumstances beyond ELAN's control, including, but not limited to, lightning, flood, electrical surge, tornado, earthquake, or other catastrophic events beyond ELAN's control, or to improper operation, maintenance or storage, or to other than normal use of service. With respect to equipment sold by, but not manufactured by ELAN, the warranty obligations of ELAN shall in all respects conform to the warranty actually extended to ELAN by its supplier. The foregoing warranties do not cover reimbursement for labor, transportation, removal, installation or other expenses which may be incurred in connection with repair or replacement.

Except as may be expressly provided and authorized in writing by ELAN, ELAN shall not be subject to any other obligations or liabilities whatsoever with respect to equipment manufactured by ELAN or services rendered by ELAN.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESSED AND IMPLIED WARRANTIES EXCEPT WARRANTIES OF TITLE, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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